

FIG. 1

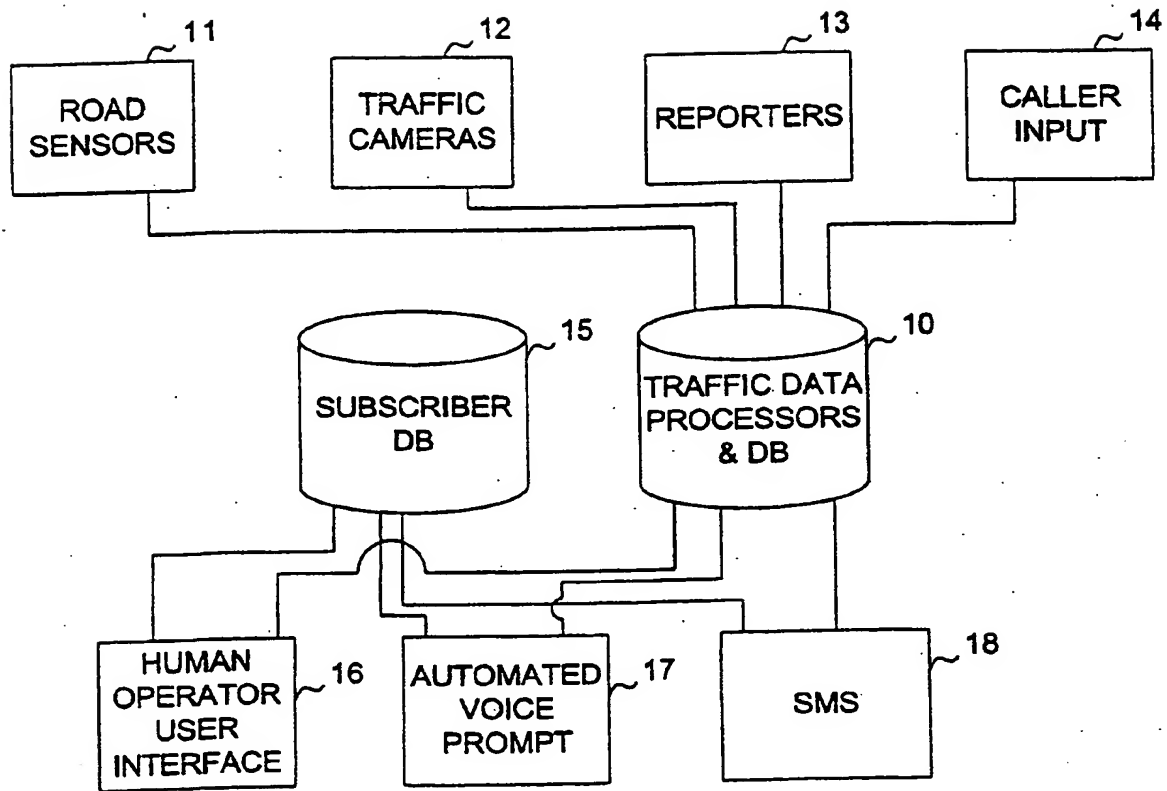


FIG. 2

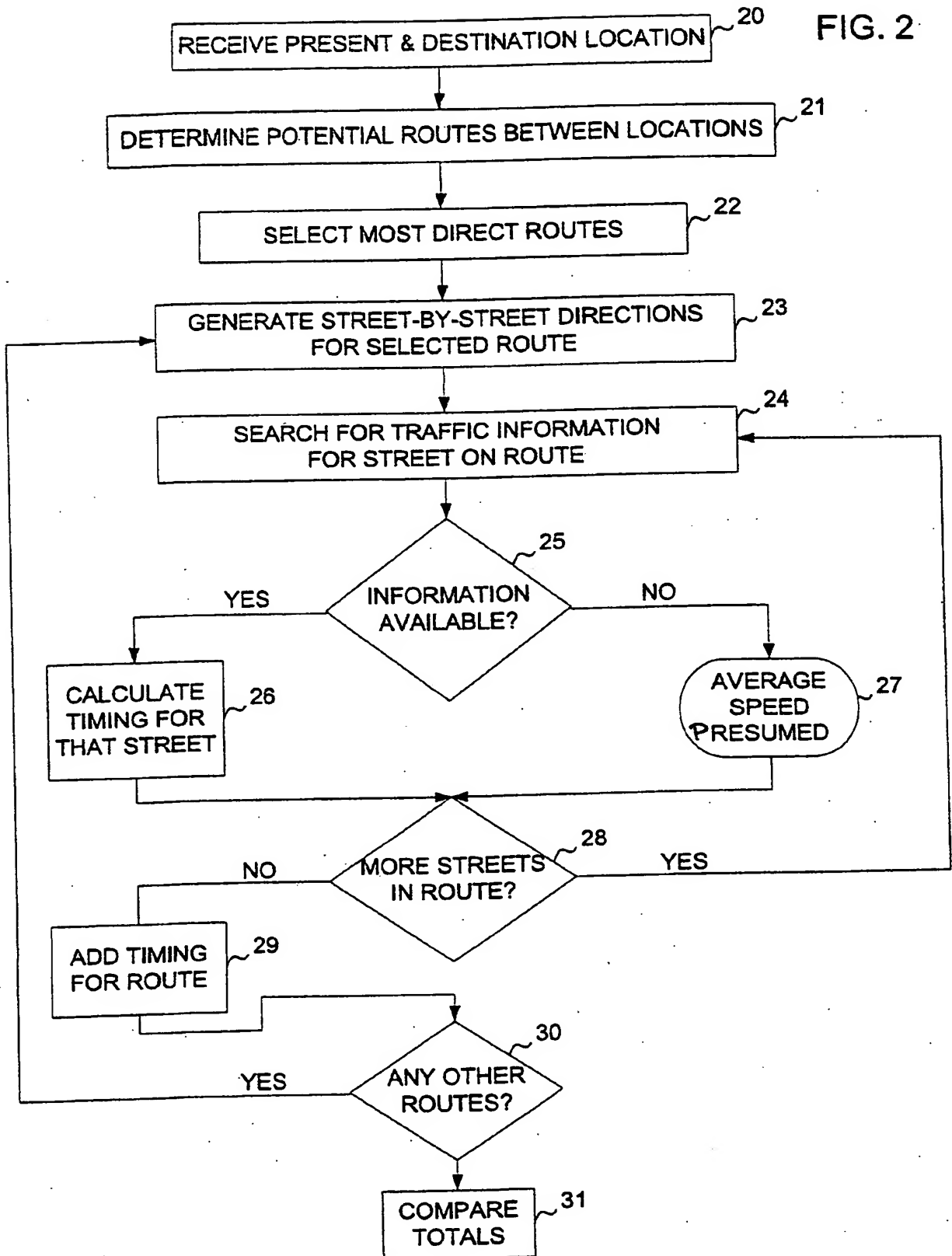


Figure 3

Present Location: Rt. 23N, b/t 1<sup>st</sup> St. & 2<sup>nd</sup> St.

Destination Location: HWY 350 at I395

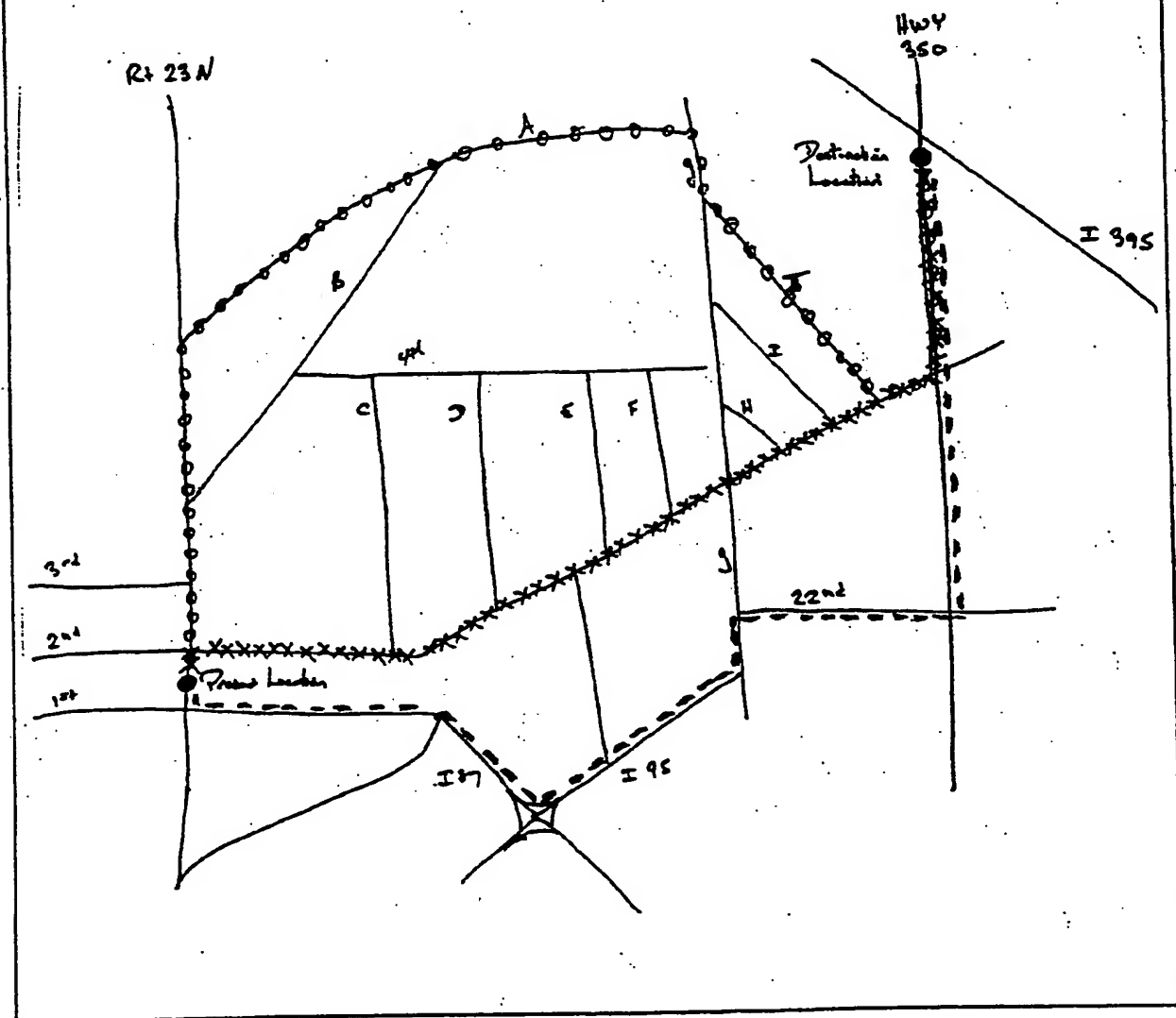


FIG. 4

ROUTE STREET	STRETCH OF ROAD	DISTANCE
(A)	(1) Rt 23 N, b/t 1 <sup>st</sup> & A Sts.,	3 mi
	(2) A St. W, b/t Rt 23 N & G St.,	6 mi
	(3) G St. S, b/t A St. & J St.,	1 mi
	(4) J St. SW, b/t G St. & 2 <sup>nd</sup> St.	2 mi
	(5) 2 <sup>nd</sup> St. NW, b/t J St. & Hwy 350	0.5 mi
	(6) Hwy 350 N, b/t J St. & Hwy 350	5 mi
(B)	(1) Rt 23 N, b/t 1 <sup>st</sup> & 2nd Sts.	0.5 mi
	(2) 2 <sup>nd</sup> St. W, b/t Rt 23N & Hwy 350	6 mi
	(3) Hwy 350 N, b/t Rt 23N & Hwy 350	5 mi
(C)	(1) Rt 23 S, b/t 2 <sup>nd</sup> & 1 <sup>st</sup> Sts.	.5 mi
	(2) 1 <sup>st</sup> St. W, b/t Rt 23 & I-87	2 mi
	(3) I-87 SW, b/t 1 <sup>st</sup> St. & I-95	2 mi
	(4) I-95 NW, b/t I-87 & G St.	6 mi
	(4) G St. N, b/t I-95 & 22 <sup>nd</sup> St.	1 mi
	(5) 22 <sup>nd</sup> St. W, b/t G St. & Hwy 350	3 mi
(6)	Hwy 350 N, b/t G St. & Hwy 350	10 mi

FIG. 5

List of Streets in Route		Mi.	Average MPH	# of Traffic Lights	Traffic Advisory/Category	Estimated MPH	Traffic light timing	Time
(1)	Rt 23 N, b/t 1 <sup>st</sup> & A Sts.,	3 mi	45 mph	1	None	45 mph	+1 min	5 min
(2)	A St. W, b/t Rt 23 N & G St.,	6 mi	45 mph	0	Congestion, Category 3	25 mph	0 min	14 min
(3)	G St. S, b/t A St. & J St.,	1 mi	15 mph	1	None	15 mph	+2 min	6 min
(4)	J St. SW, b/t G St. & 2 <sup>nd</sup> St.	2 mi	30 mph	0	Congestion, Category 4	25 mph	0	4.5 min
(5)	2 <sup>nd</sup> St. NW, b/t J St. & Hwy 350	0.5 mi	15 mph	1	Congestion, Category 2	8 mph	+1 min	5 min
(6)	Hwy 350 N, b/t J St. & Hwy 350	5 mi	55 mph	0	None	55 mph	0	5.5 min
<b>TOTAL TIME FOR ROUTE "A" = 40 MINUTES</b>								
(1)	Rt 23 N, b/t 1 <sup>st</sup> & 2nd Sts.	0.5 mi	45 mph	1	None	45 mph	+1 min	1.5 min
(2)	2 <sup>nd</sup> St. W, b/t Rt 23N & Hwy 350	6 mi	15 mph	8	Congestion, Category 4	12 mph	+8 min	38 min
(3)	Hwy 350 N, b/t Rt 23N & Hwy 350	5 mi	55 mph	0	None	55 mph	0	5.5 min
<b>TOTAL TIME FOR ROUTE "B" = 45 MINUTES</b>								
(1)	Rt 23 S, b/t 2 <sup>nd</sup> & 1 <sup>st</sup> Sts.	.5 mi	45 mph	1	None	45 mph	+1 min	2.5 min
(2)	1 <sup>st</sup> St. W, b/t Rt 23 & I-87.	2 mi	35 mph	0	None	35 mph	0	3.5 min
(3)	I-187 SW, b/t 1 <sup>st</sup> St. & I-95	2 mi	65 mph	0	None	65 mph	0	2.0 min
(4)	I-95 NW, b/t I-87 & G St.	6 mi	65 mph	0	Accident, Category 1	8 mph	0	45 min
(5)	G St. N, b/t I-95 & 22 <sup>nd</sup> St.	1 mi	25 mph	1	None	25 mph	1	3.4 min
(6)	22 <sup>nd</sup> St. W, b/t G St. & Hwy 350	3 mi	50 mph	0	None	50 mph	0	3.6 min
(7)	Hwy 350 N, b/t G St. & Hwy 350	10 mi	55 mph	0	None	55 mph	0	5.5 min
<b>TOTAL TIME FOR ROUTE "C" = 65 MINUTES</b>								

FIG. 6

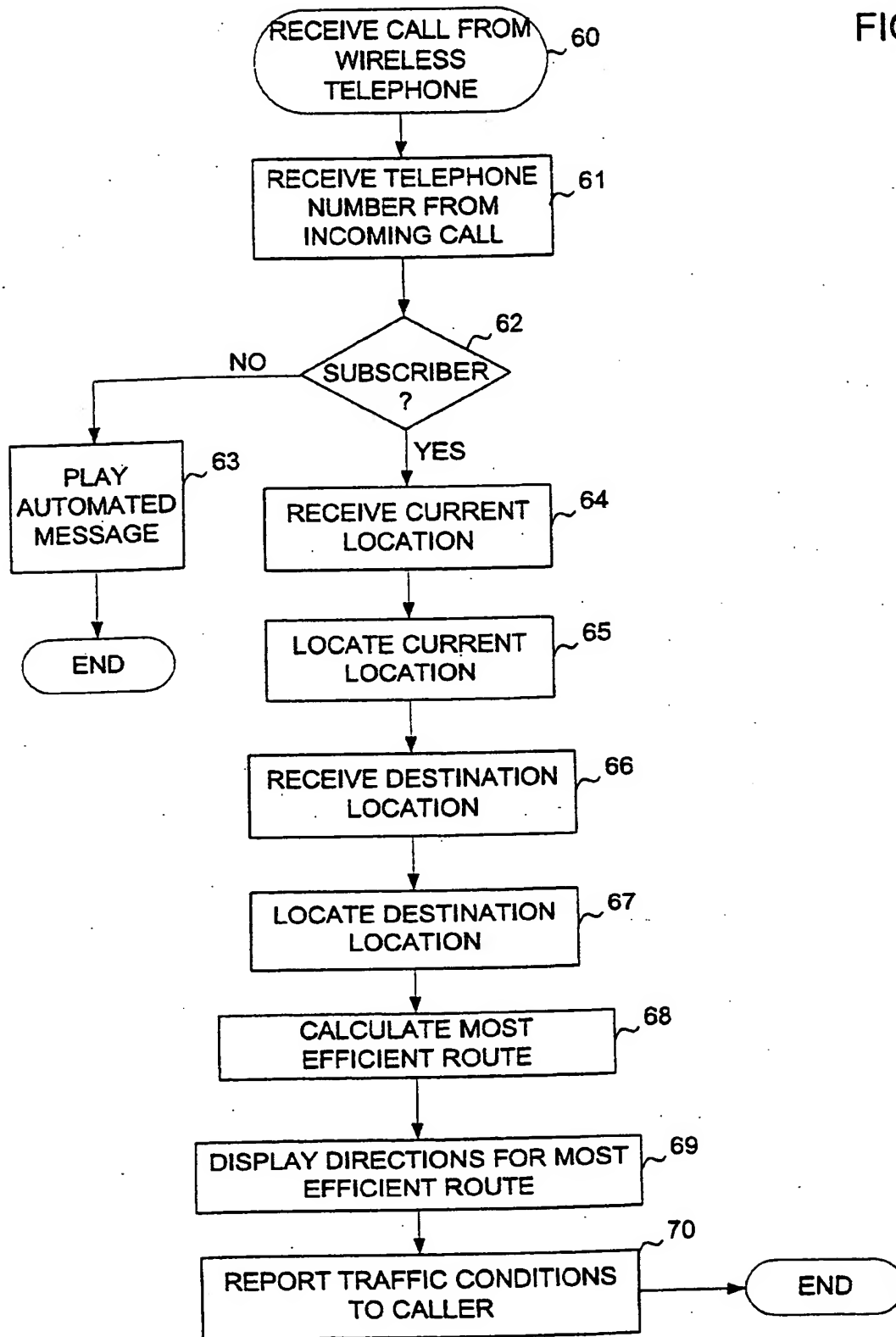


Figure 7

Present Location: I-495, Tysons Corner, VA

Destination Location: Rockville Pike, Rockville, MD

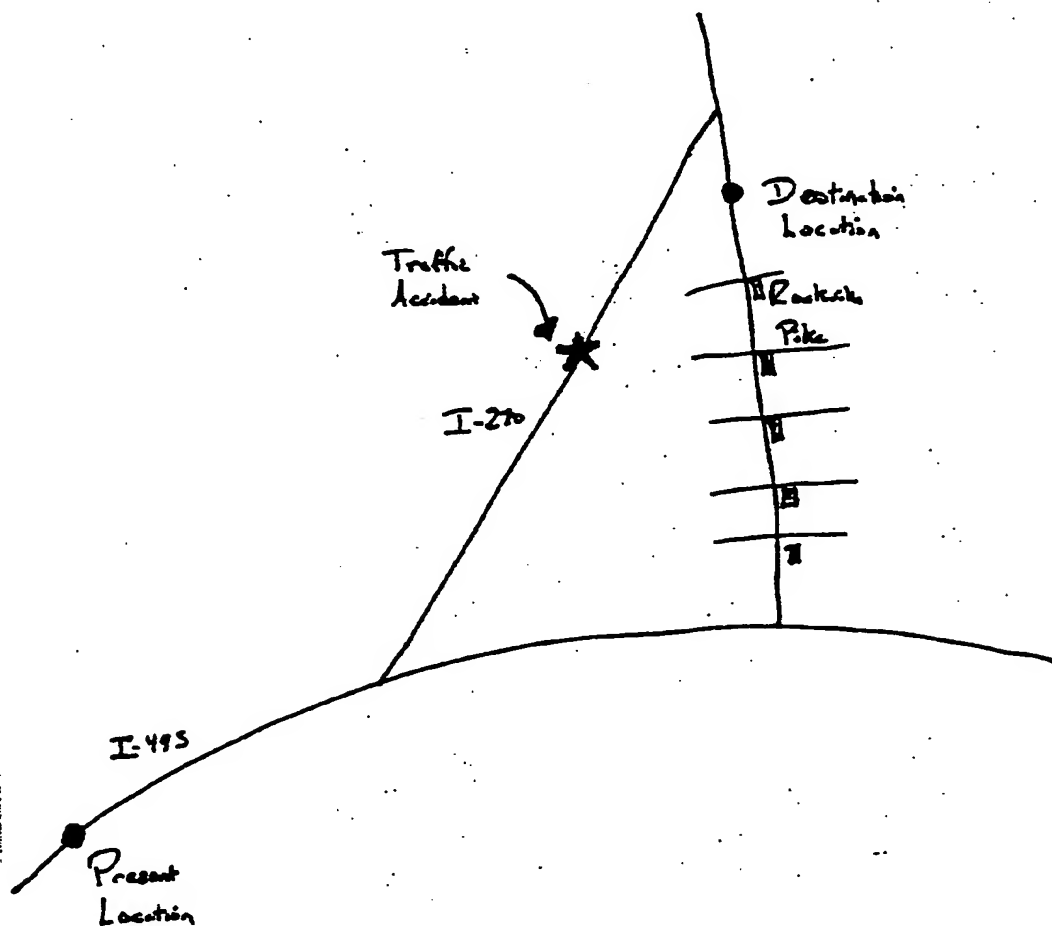
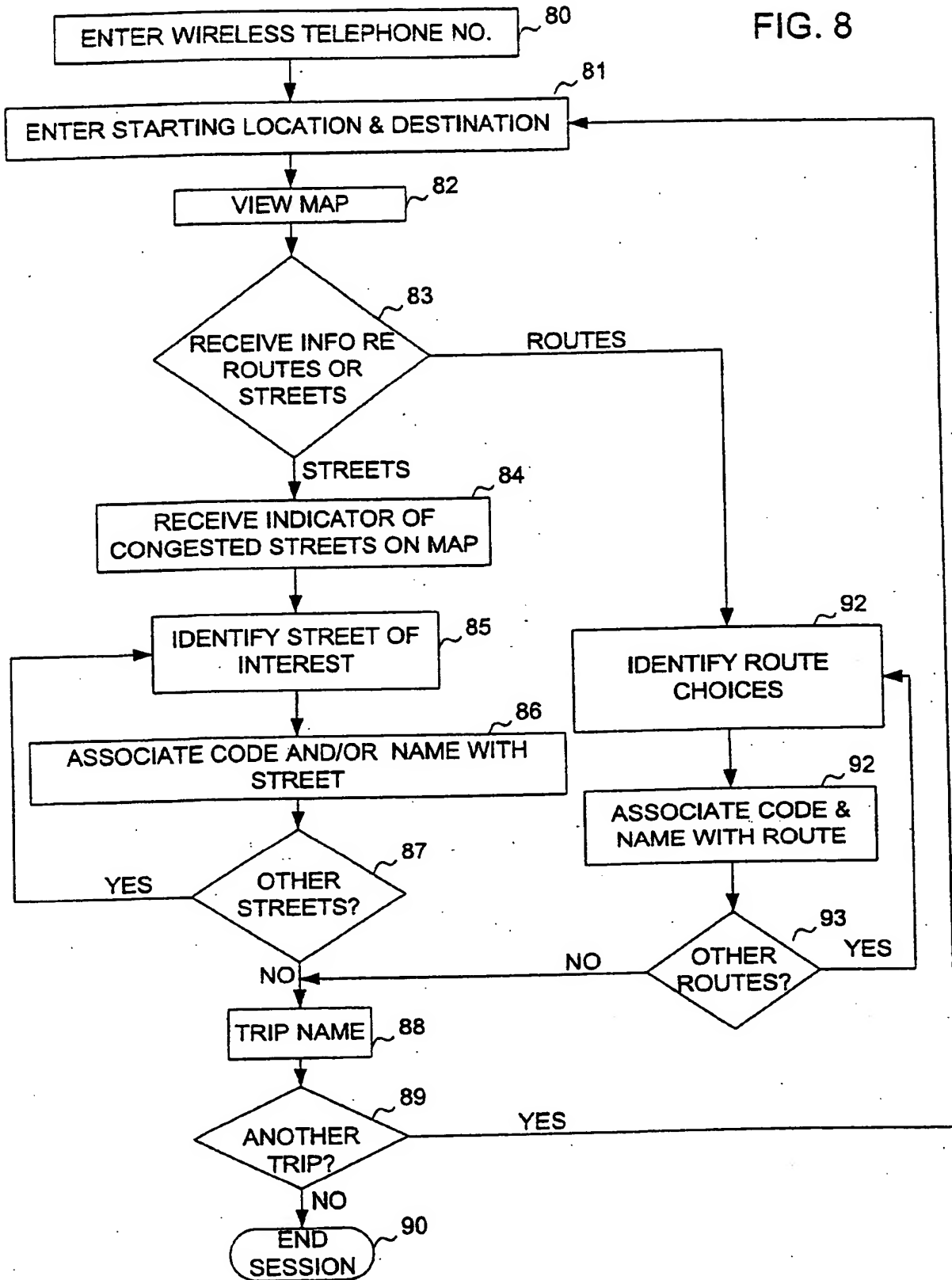


FIG. 8





Enter Cellular Telephone Number: 404-628-5465

Enter Starting Location: 1459 Peachtree Street

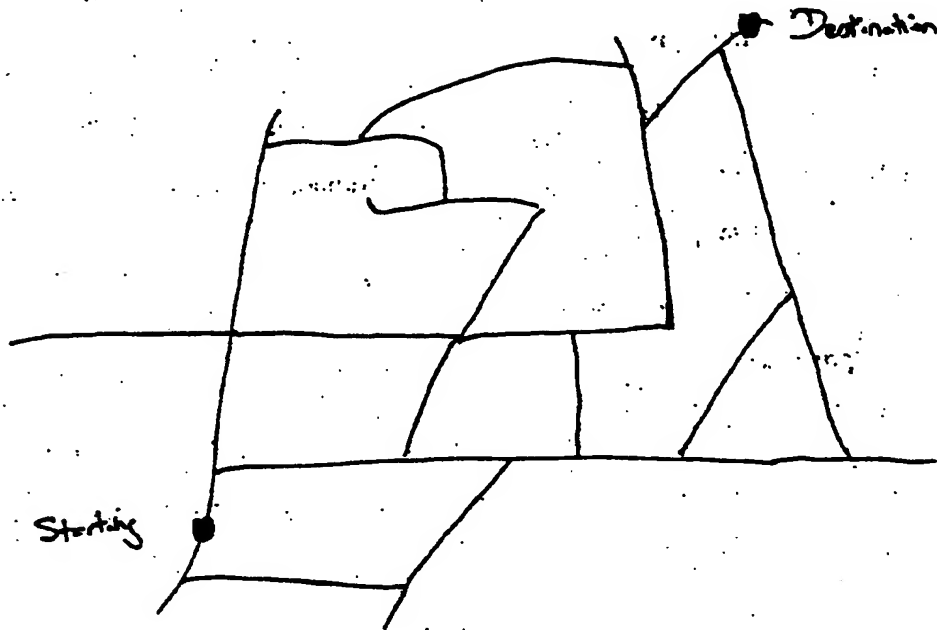
Enter Destination Location: 154 Barbados Place

The diagram shows a hand-drawn map with several intersecting lines representing streets. A horizontal line runs across the middle. A vertical line intersects it. Another line branches off to the right from the vertical line. A third line branches off downwards from the horizontal line. A fourth line branches off to the left from the horizontal line. A fifth line branches off upwards from the horizontal line. A sixth line branches off to the right from the horizontal line. A seventh line branches off to the left from the horizontal line. A eighth line branches off to the right from the horizontal line. A ninth line branches off to the left from the horizontal line. A tenth line branches off to the right from the horizontal line. A eleventh line branches off to the left from the horizontal line. A twelfth line branches off to the right from the horizontal line. A thirteenth line branches off to the left from the horizontal line. A fourteenth line branches off to the right from the horizontal line. A fifteenth line branches off to the left from the horizontal line. A sixteenth line branches off to the right from the horizontal line. A seventeenth line branches off to the left from the horizontal line. An eighteenth line branches off to the right from the horizontal line. A nineteenth line branches off to the left from the horizontal line. A twentieth line branches off to the right from the horizontal line. A twenty-first line branches off to the left from the horizontal line. A twenty-second line branches off to the right from the horizontal line. A twenty-third line branches off to the left from the horizontal line. A twenty-fourth line branches off to the right from the horizontal line. A twenty-fifth line branches off to the left from the horizontal line. A twenty-sixth line branches off to the right from the horizontal line. A twenty-seventh line branches off to the left from the horizontal line. A twenty-eighth line branches off to the right from the horizontal line. A twenty-ninth line branches off to the left from the horizontal line. A thirtieth line branches off to the right from the horizontal line. A thirty-first line branches off to the left from the horizontal line. A thirty-second line branches off to the right from the horizontal line. A thirty-third line branches off to the left from the horizontal line. A thirty-fourth line branches off to the right from the horizontal line. A thirty-fifth line branches off to the left from the horizontal line. A thirty-sixth line branches off to the right from the horizontal line. A thirty-seventh line branches off to the left from the horizontal line. A thirty-eighth line branches off to the right from the horizontal line. A thirty-ninth line branches off to the left from the horizontal line. A fortieth line branches off to the right from the horizontal line. A forty-first line branches off to the left from the horizontal line. A forty-second line branches off to the right from the horizontal line. A forty-third line branches off to the left from the horizontal line. A forty-fourth line branches off to the right from the horizontal line. A forty-fifth line branches off to the left from the horizontal line. A forty-sixth line branches off to the right from the horizontal line. A forty-seventh line branches off to the left from the horizontal line. A forty-eighth line branches off to the right from the horizontal line. A forty-ninth line branches off to the left from the horizontal line. A fiftieth line branches off to the right from the horizontal line.

Receive Information for: O Streets    ● Routes

Identify Trip: Commute Home

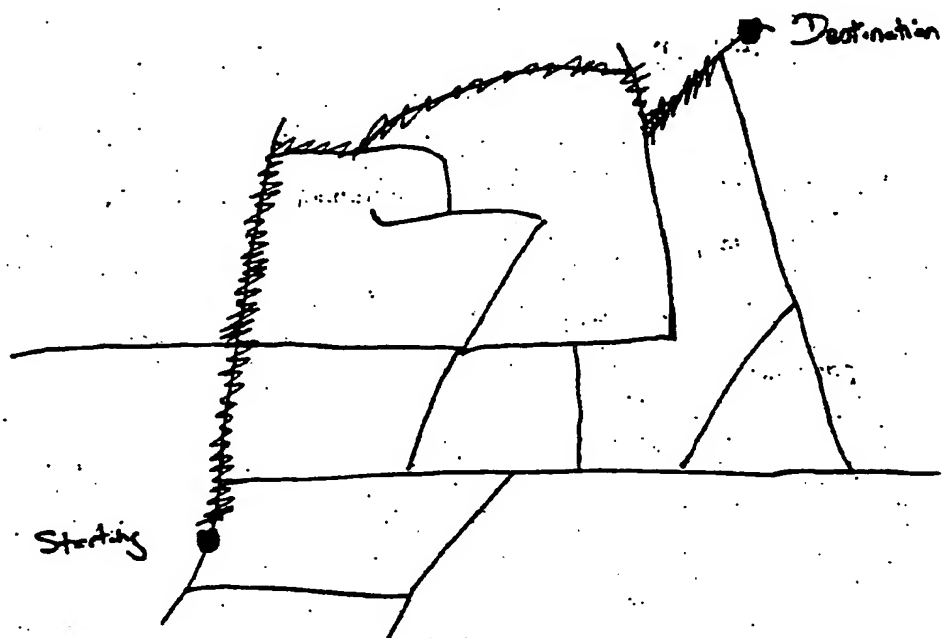
Enter Destination Location: 154 Barbados Place



Identify Trip: Commute Home

Figure 9B

Identify Route:



Identify Name of Route:

Along Peachtree

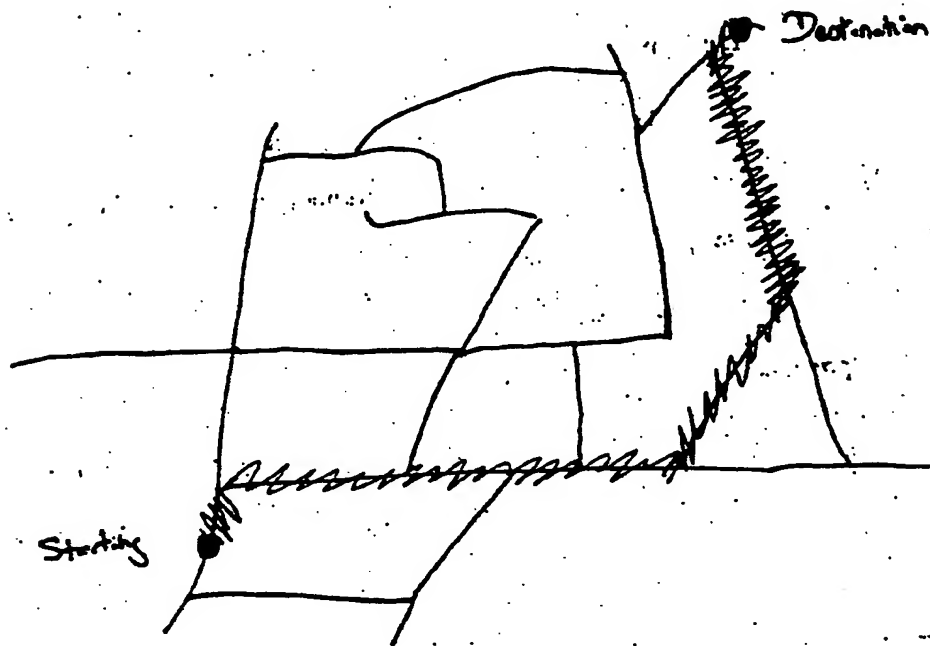
Identify Another Route:

☒ Yes

☐ No

Figure 9C

Identify Route:



Identify Name of Route:

Along Midtown

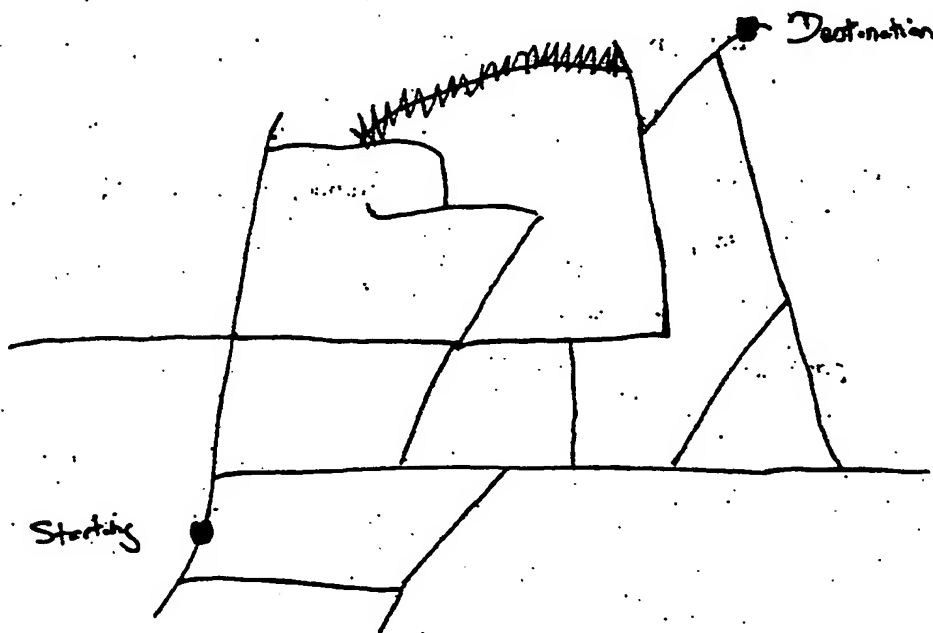
Identify Another Route:

☐ Yes

☒ No

Figure 10A

Identify Street:



Identify Name of Street:

Third Street

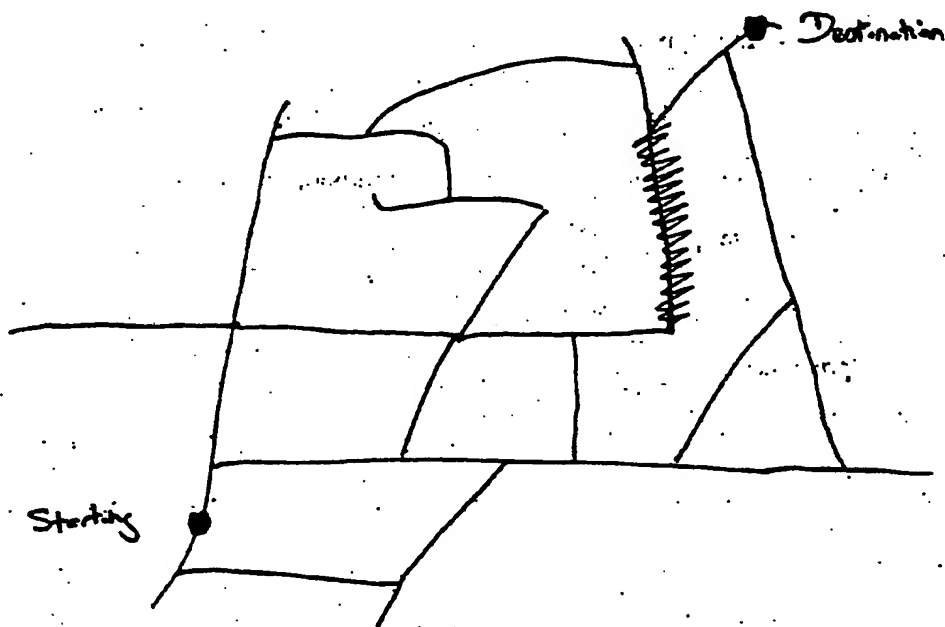
Identify Another Street:

☒ Yes

☐ No

Figure 10B

Identify Street:



Identify Name of Street: Jay Street

Identify Another Street: ☐ Yes ☒ No

FIG. 11

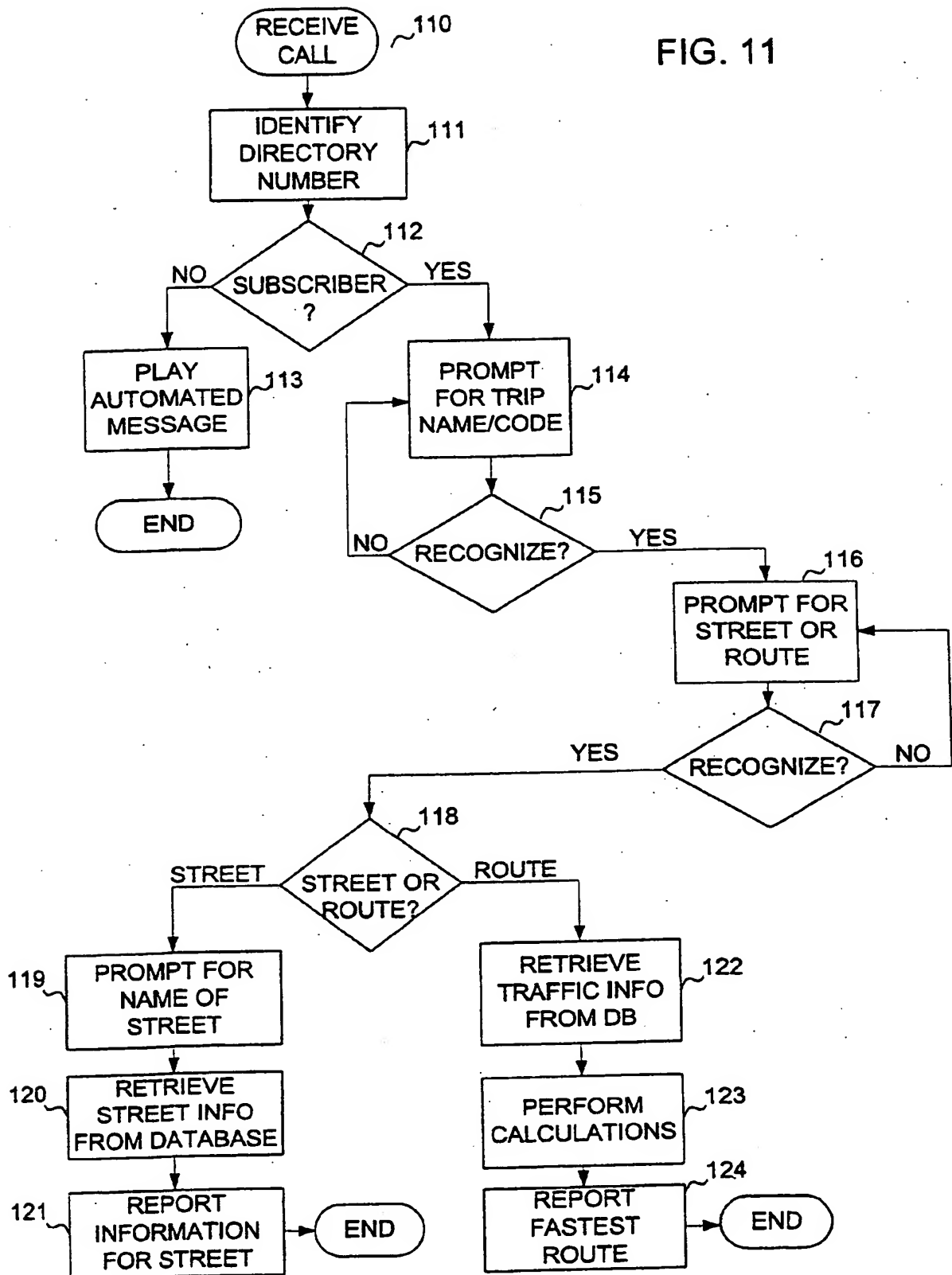


FIG. 12A

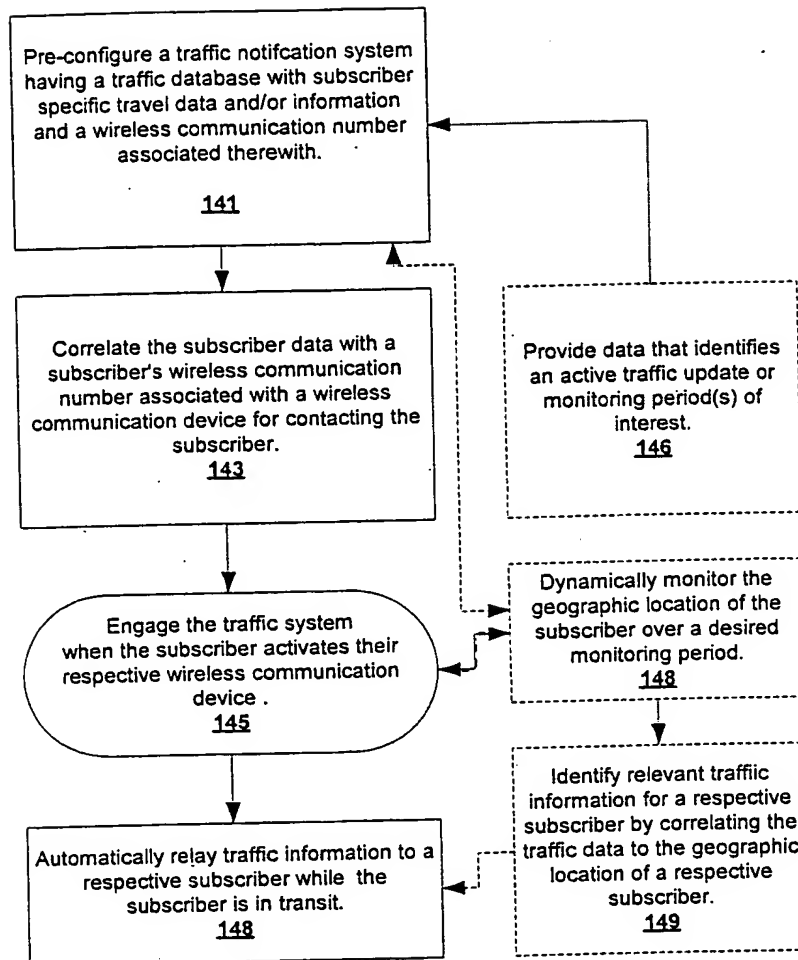
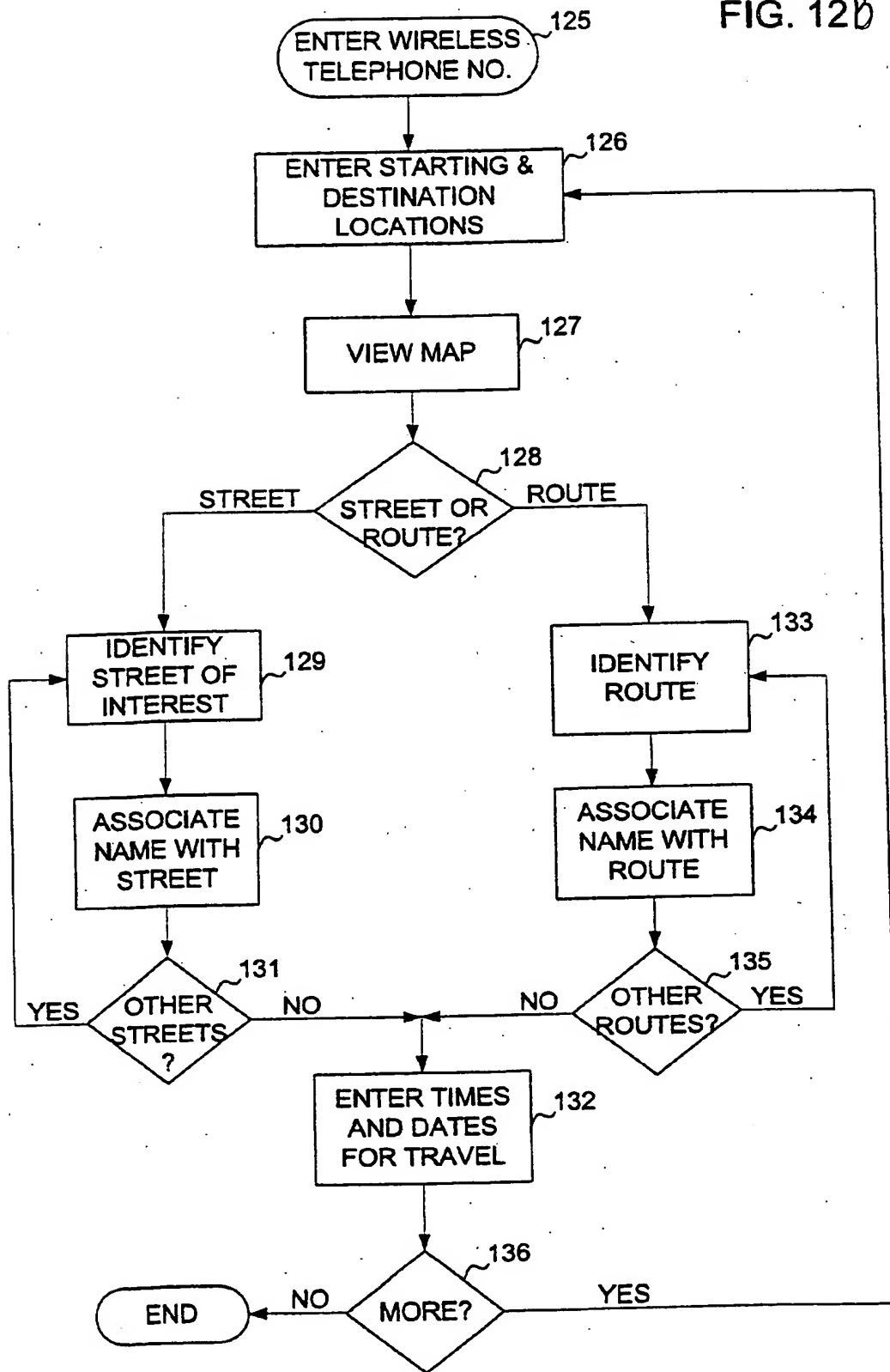


FIG. 12b



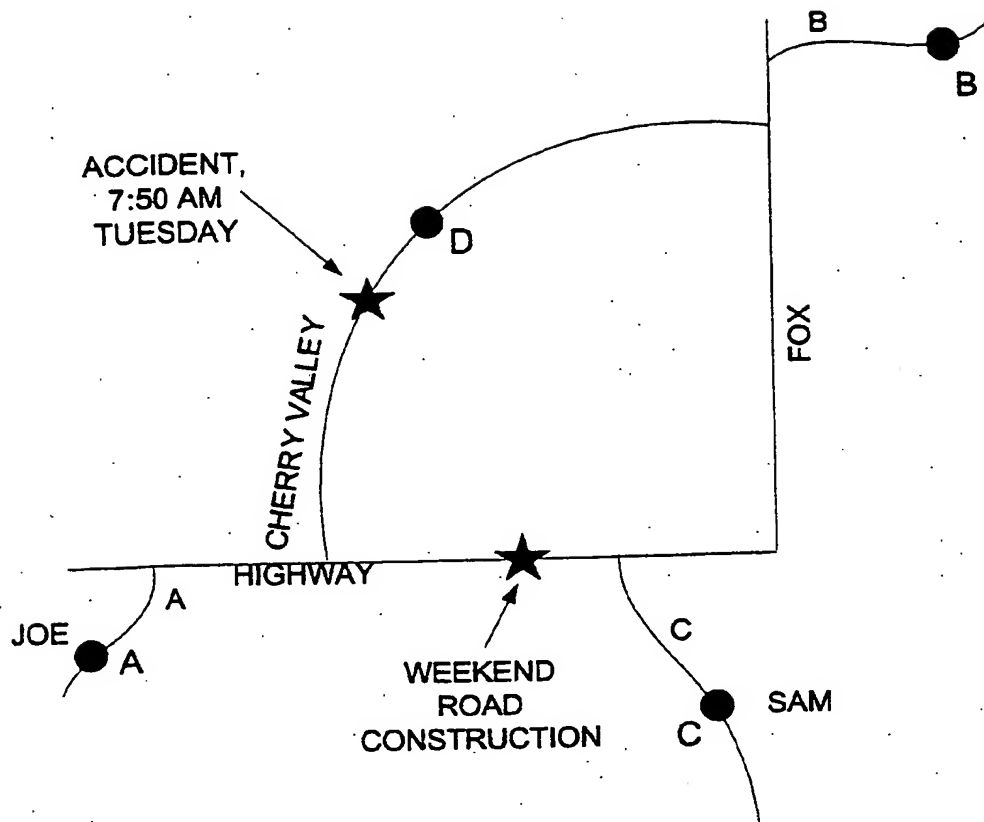


**Fig. 13**

**SUBSCRIBER DATABASE**

CLIENT: JOHN DOE DIRECTORY NUMBER: (404) 555-1325 INFORMATION REPORTING FORMAT: SMS	
1.	STREET: HALLOWELL DRIVE, NORTH LOCATION: BETWEEN 3 <sup>RD</sup> & 5 <sup>TH</sup> STS. TIME: 12:00 PM DAYS OF WEEK: SATURDAY
2.	ROUTE: ALONG CHERRY VALLEY STREETS: (1) RT 23 N, B/T 1 <sup>ST</sup> & A STS., 3 MI (2) A ST. W, B/T RT 23 N & G ST., 6 MI (3) G ST. S, B/T A ST. & J STS., 1 MI (4) 2 <sup>ND</sup> ST. NW, B/T J ST. & S STS., 5 MI TIME: 8:00 AM DAYS OF WEEK: WEEKDAYS COMPARE WITH: "ALONG HIGHWAY"
3.	ROUTE: ALONG HIGHWAY STREETS: (1) I-395, B/T EXIT 35 & EXIT 47, 10 MI (2) BACKLICK ROAD, B/T I-395 & ____ RD, 3 MI TIME: 8:00 AM DAYS OF WEEK: WEEKDAYS COMPARE WITH: "ALONG CHERRY VALLEY"

FIGURE 14



**FIGURE 15**

	TIME/DAY	SUBSCRIBER NO./NAME	ROUTE/ STREET	INFO
1.	8:00 AM, MONDAY	555-1212/JOE	ROUTE	A HIGHWAY FOX B = "ALONG HIGHWAY" A CHERRY VALLEY FOX B = "ALONG CHERRY VALLEY"
2.	11:00 AM, MONDAY	650-1324/SARAH	STREET	FOX STREET, B/T HIGHWAY & B
3.	3:30 PM, MONDAY	924-3526/TONY	ROUTE	C FOX B = "BY FOX" C HIGHWAY D FOX B = "DETOUR"
4.	5:00 AM, TUESDAY	999-1234/SAM	STREET	HIGHWAY, B/T A & C
5.	8:00 AM, TUESDAY	555-1212/JOE	ROUTE	A HIGHWAY FOX B = "ALONG-HIGHWAY" A CHERRY VALLEY FOX B = "ALONG CHERRY VALLEY"
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.	.	.	.	.
6.	12:00 PM, SATURDAY	999-1234/SAM	STREET	HIGHWAY, B/T A & C
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# Automated and Location Based Traffic Notification System Architecture

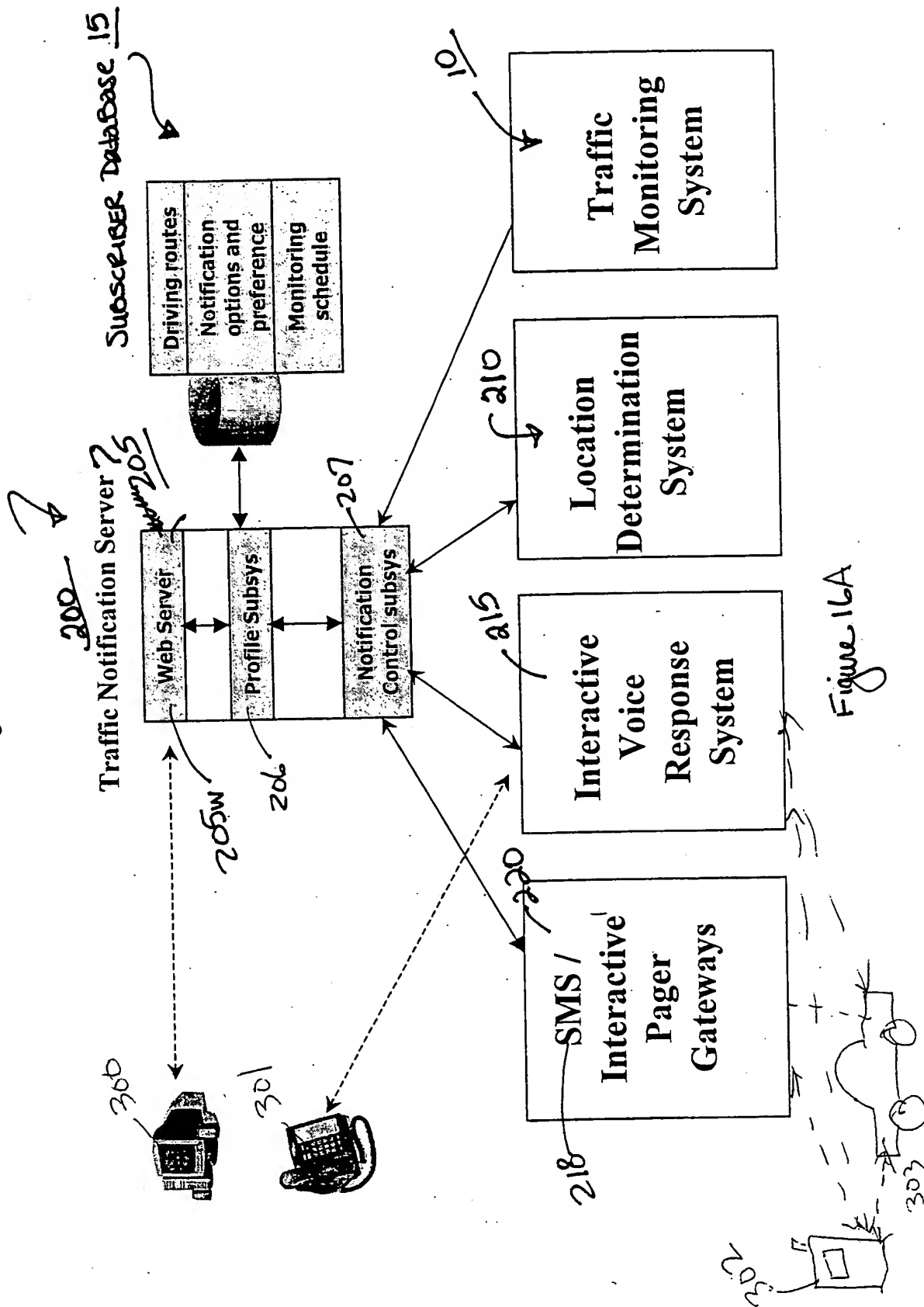
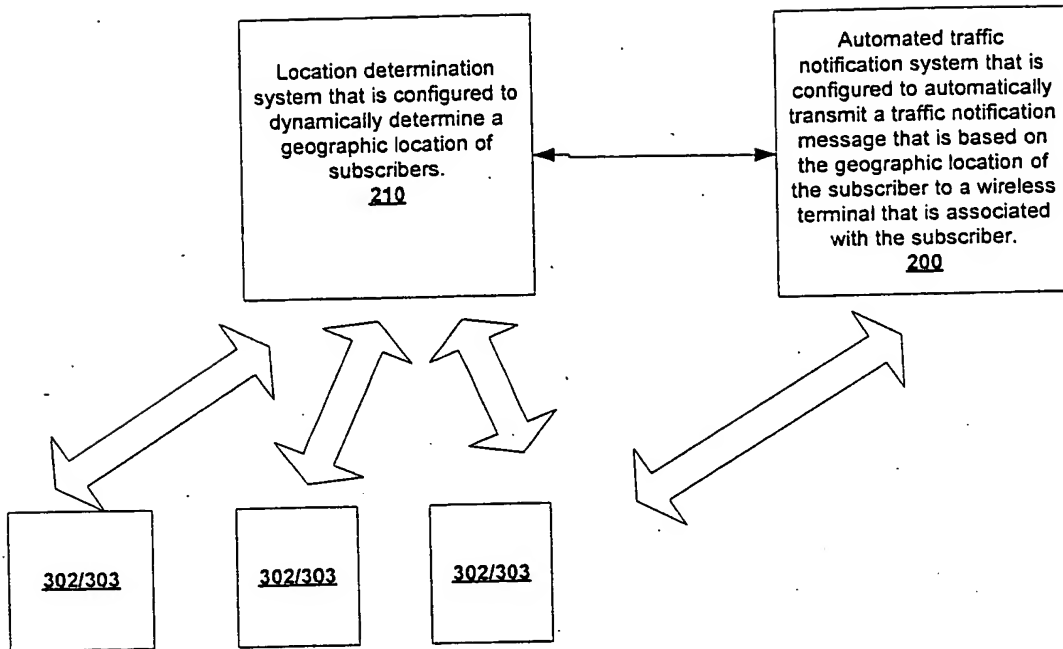
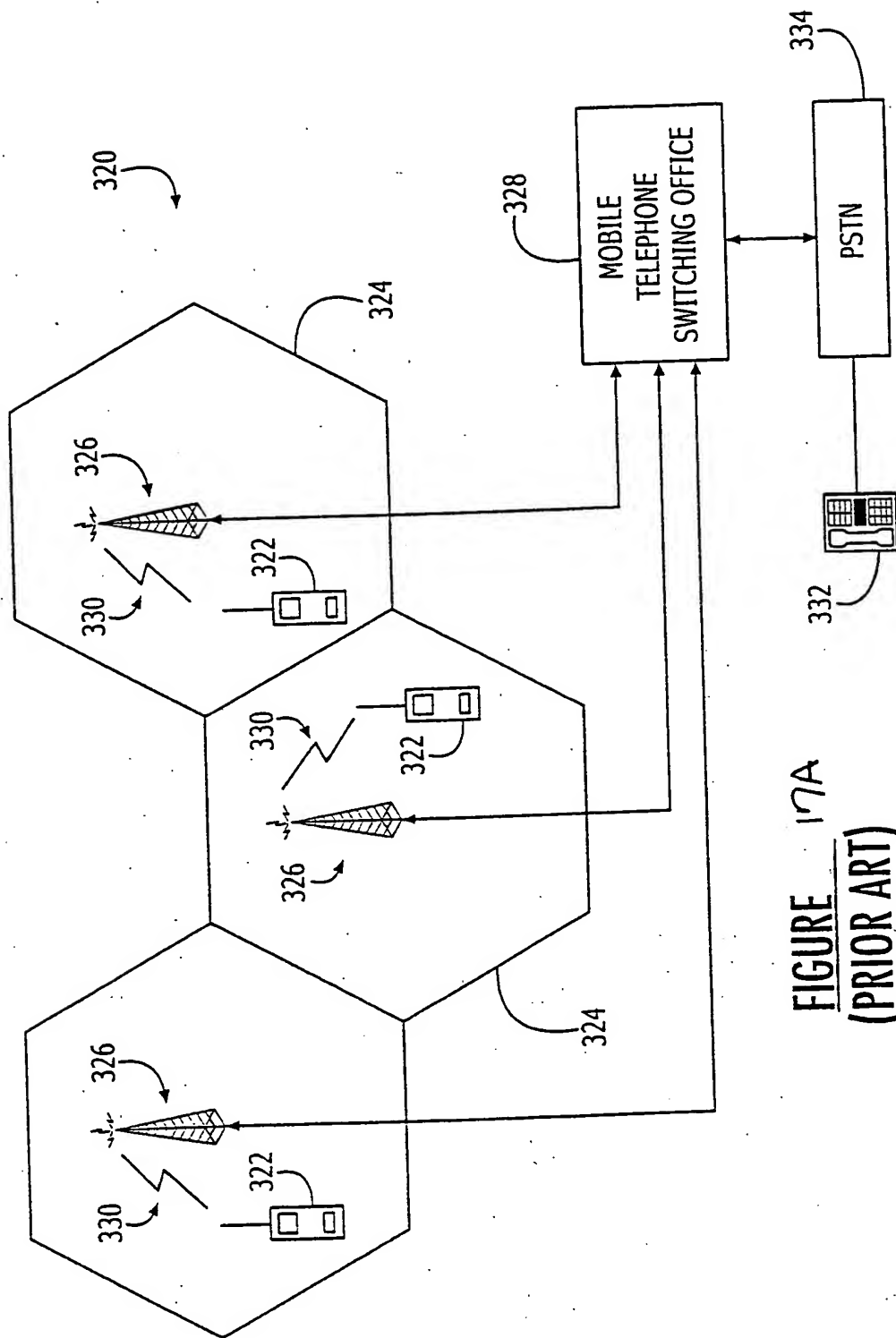


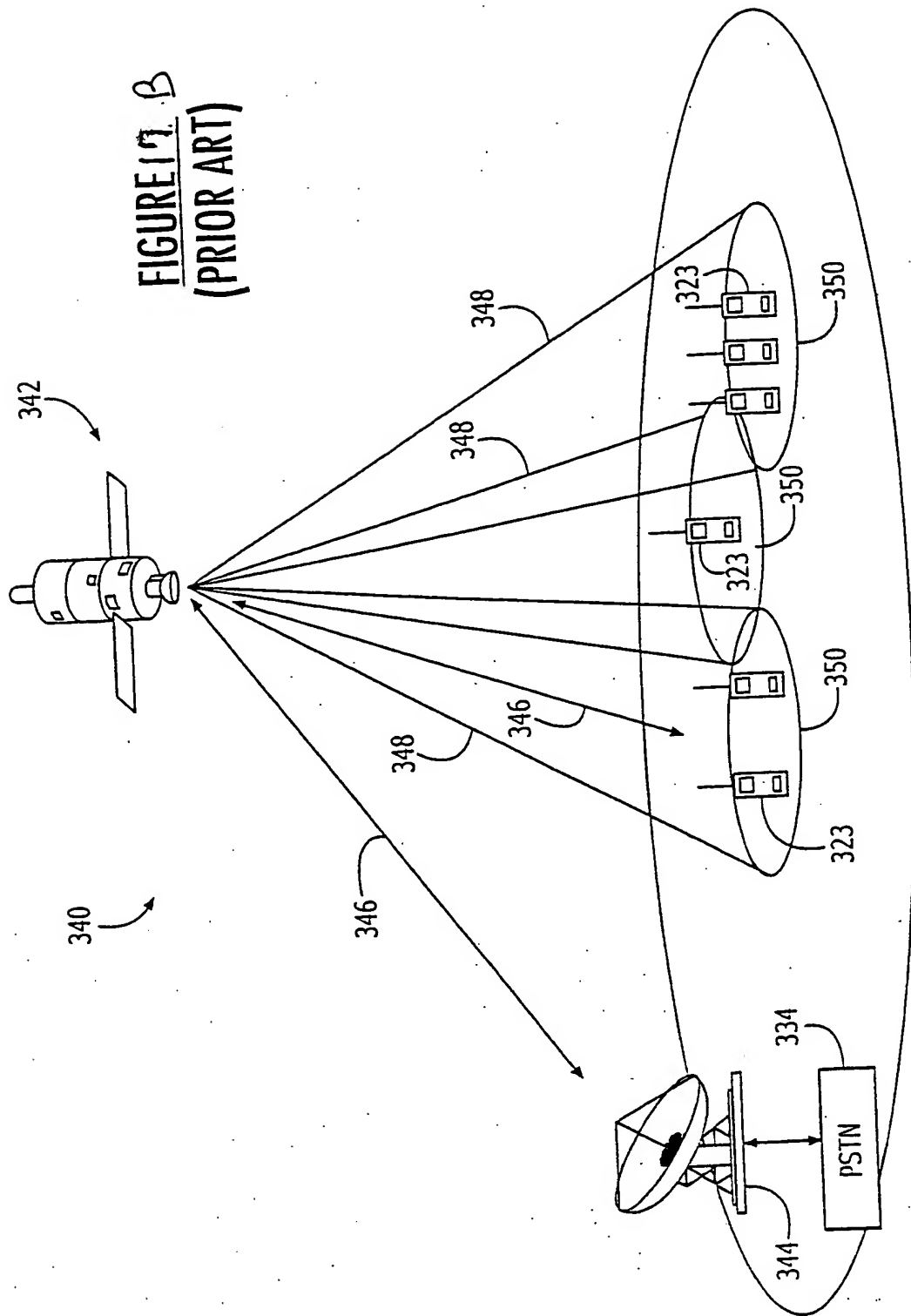
FIG. 16B

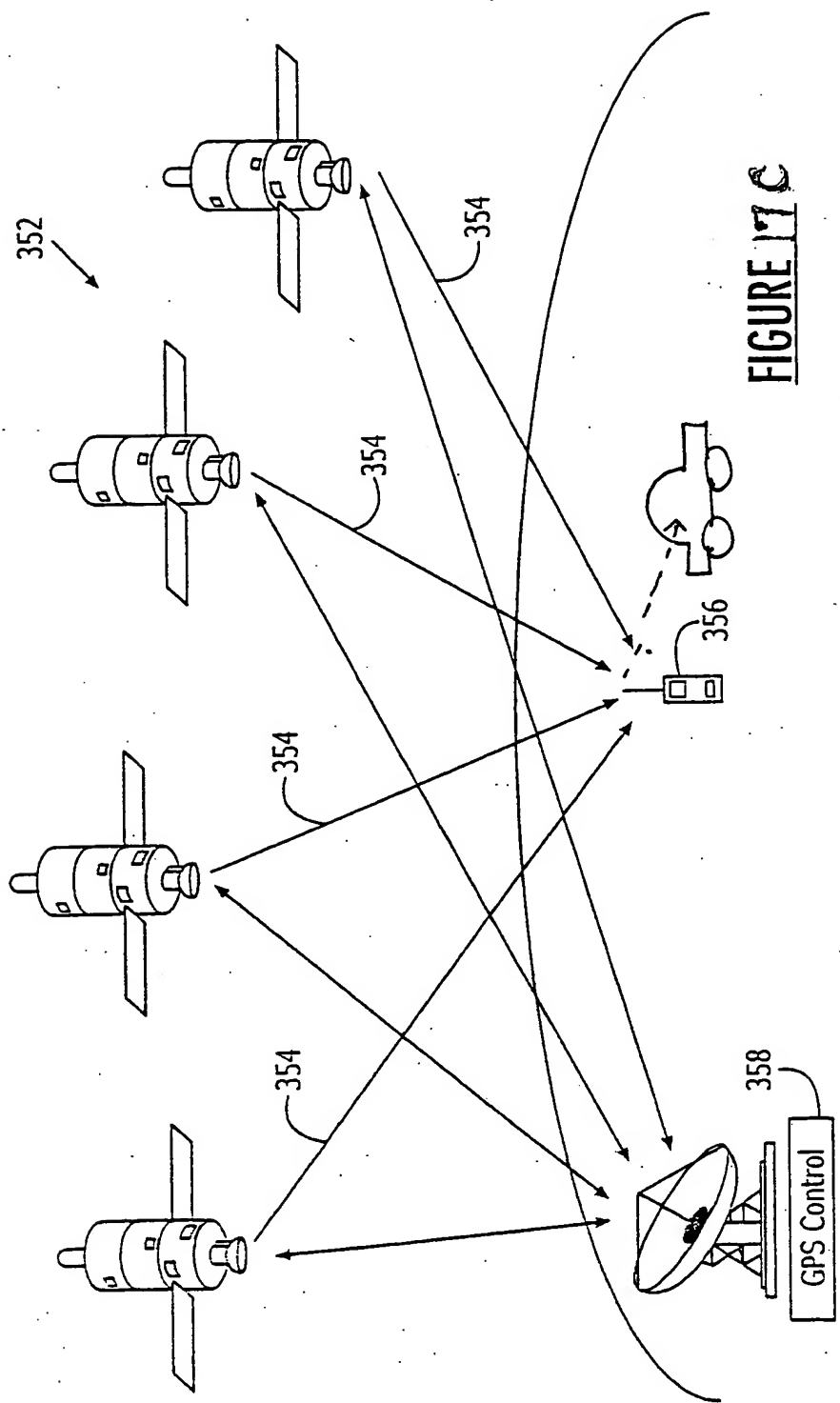




**FIGURE 17A**  
**(PRIOR ART)**

**FIGURE 17.B**  
**(PRIOR ART)**

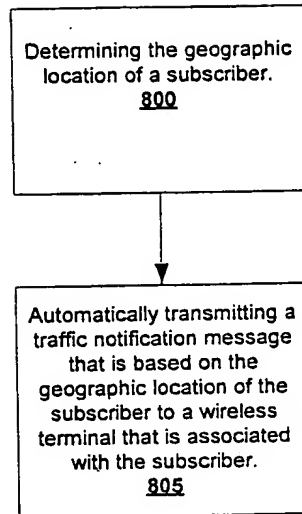




**FIGURE 17C**



**FIG. 18**



**FIG. 19**

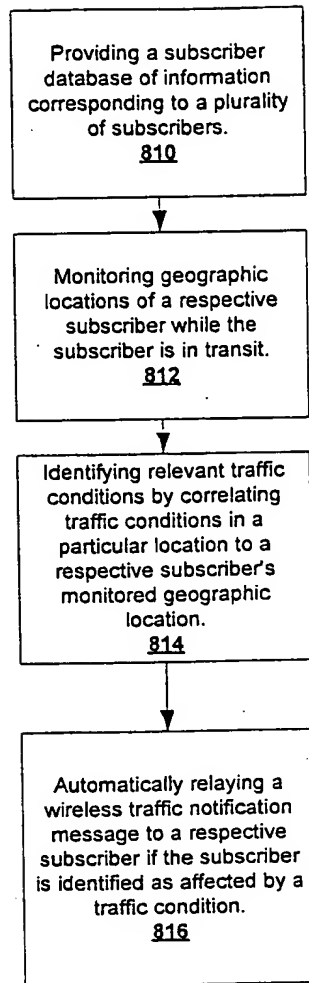


FIG. 20

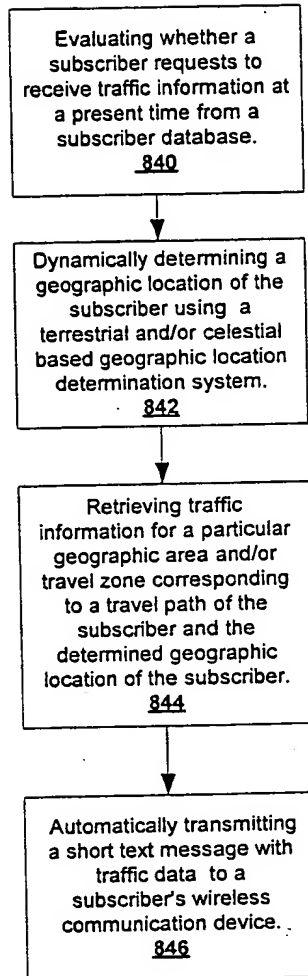


FIG. 21

